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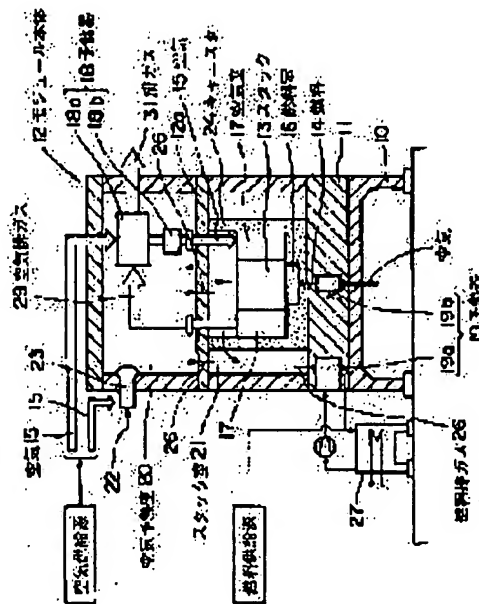
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(54) FUEL CELL MODULE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a fuel cell module capable of making a capacity of a fuel cell large, and having high performance, high durability and high reliability.

SOLUTION: This module comprises an insulative module main body 12 with an inside partitioned into upper and lower chambers by a partitioning wall 12a arranged in a horizontal direction, a fuel cell stack 13 which is provided inside the lower chamber of the module main body 12, and where power generating films arranged with air electrodes and fuel electrodes in their both faces are plurally arranged in an upright condition, a fuel chamber 16 and an air chamber 17 arranged in a periphery of the fuel cell stack 13 to supply fuel 14 from a lower side (ground side) of the stack 13 and to supply air 15 from its left and right sides, a preheater 18 provided inside the upper chamber of the module main body 12 to heat the air 15 supplied to the air chamber 17 upto a power generating temperature (about 1000°C) of the fuel cell, and a preheater 19 provided in a lower side of the module main body 12 to heat the fuel 14 supplied to the fuel chamber 16 upto the power generating temperature.



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